

09/351,057

=> d his

(FILE 'HOME' ENTERED AT 20:40:46 ON 21 AUG 2003)

FILE 'REGISTRY' ENTERED AT 20:40:53 ON 21 AUG 2003

L1 41 S GNLWATGHFM/SQSP
L2 0 S 'PHE-GLY-TRP-ALA-VAL-BAL-HIS-PHE-NLE'/SQSP
L3 0 S 'PHE-GLY-TRP-ALA-VAL-BAL-HIS-PHE-NLE'/SQSP

FILE 'HCAPLUS' ENTERED AT 20:43:53 ON 21 AUG 2003

L4 0 S L3/D OR L3(L) (DERIV?)
L5 0 S L3 AND FLUORESC? (L) (SUBSTANC? OR PEPTID?)
L6 172 S L1
L7 1 S L6 AND FLUORESC? (L) (SUBSTANC? OR PEPTID?)

=> d l7 abs ibib kwic hitstr 1

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```
=> s gnlwatghfm/sqsp
L1      41 GNLWATGHFM/SQSP
```

```
=> s 'phe-gly-trp-ala-val-bal-his-phe-nle/sqsp
MISMATCHED QUOTE ''PHE-GLY-TR'
Quotation marks (or apostrophes) must be used in pairs,
one before and one after the expression you are setting
off or masking.
```

```
=> s 'phe-gly-trp-ala-val-bal-his-phe-nle'/sqsp
L2      0 'PHE-GLY-TRP-ALA-VAL-BAL-HIS-PHE-NLE'/SQSP
```

```
=> s phe-gly-trp-ala-val-bal-his-phe-nle/sqsp
- IS NOT A VALID AMINO ACID SYMBOL
```

```
=> s 'phe-gly-trp-ala-val-bal-his-phe-nle'/sqsp
L3      0 'PHE-GLY-TRP-ALA-VAL-BAL-HIS-PHE-NLE'/SQSP
```

=> d 17 abs ibib kwic hitstr 1

L7 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS on STN

AB The conformation of neuromedin B (NMB) [87096-84-2], gastrin releasing **peptide** related decapeptide (GRP-109) [81608-30-2], and their analogs in phospholipids (lysophosphatidylcholine) were examd. by **fluorescent** spectra and 1H-NMR. Although NMB(1-8) [104634-16-4] and GRP-10P(1-8) [104634-17-5] lost their affinity for the phospholipid, NMB(4-10) [97413-47-3] and GRP-10P(4-10) [55749-98-9] retained their lipid affinity and this might be related to the higher biol. activity of the last 2 **peptides**. Valine analogs showed a higher **fluorescent** intensity than threonine analogs. Intraresidual transferred nuclear Overhauser effects (TRNOE) were detected in NMB and GRP-10P indicating that the entire mol. was concerned in the interaction with the liposomes. Inter-residual TRNOE were also obsd. in NMB but not GRP-10P. This was discussed in relation to the general conformations of the **peptides**. Thus, the differences in the conformation of the 2 **peptides** in the phospholipid and the differences in their biol. activities indicate that NMB and GRP-10P have different physiol. roles.

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DOCUMENT NUMBER: 105:165172

TITLE: Studies on the interaction of neuropeptides and phospholipid membrane

AUTHOR(S): Tanaka, Hisanori; Osakada, Fumio; Kubo, Kazuki; Mukai, Hidehito; Muramatsu, Ryo; Munekata, Eisuke; Wakamatsu, Kaori; Miyazawa, Tatsuo; Ohashi, Shinichi; Shiraki, Masaru

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LANGUAGE: English

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IT 81608-30-2 81608-32-4 81608-33-5 87096-84-2 97413-45-1
 97413-46-2 102577-19-5D, analogs 104634-11-9 104634-12-0
 104634-13-1 104634-14-2 104634-15-3 104634-18-6 104634-19-7
 104634-20-0 104634-21-1

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with phospholipid membrane, conformation in relation to)